VISITORS TO COMPUTER CONFERENCE PERFORM ON-LINE SIGNAL PROCESSING WITH LIGHT-PEN CONTROL

In their exhibit of the AMBILOG 200 Stored-Program Signal Processor, Adage engineers are demonstrating complex data reduction in real time. This computer's graphic input/output and light-pen control put the investigator directly into the experiment.

In a few minutes visitors to the Adage booth at the Spring Joint Computer Conference are "programming" the AMBILOG to perform data acquisition, data display, editing and analysis. Data editing includes the entire process by which data of interest is selected for further study. Such analyses as amplitude probability distributions are performed instantaneously; more complex functions such as power spectrum density for several thousand data samples are calculated in a minute or two. Results displayed on the CRT are always available quickly enough to permit adaptive analysis . . . a capability not available with conventional data-processing facilities.

ADAGE, INC. • 1079 COMMONWEALTH AVENUE, BOSTON, MASSACHUSETTS 02215 • 617:783-1100 • TWX: 710-330-0141

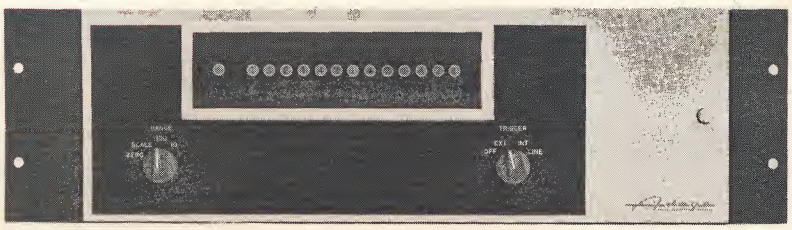
The AMOS operating system allows the user to compile in any source language for which a compiler, translator, or interpreter exists. At present, these include FORTRAN, ADEPT -- an extendable macro-assembler and symbolic-machine-language translator, and TRAC -- a text-reckoning and compiling system. Object programs compiled or translated from different source languages may be loaded and executed together with common symbolic cross references, thus facilitating accumulation of a useful library of programs, each written in the most convenient or efficient source language. Other systems programs provide efficient program debugging, using these source-language symbols, and source-language editing using the CRT display.

AMBILOG 200 is now employed in simulation studies and real-time, on-line signal processing in the fields of medicine, oceanography, seismology, flight-test telemetry, and in complex test facilities.

Adage is also exhibiting the ADAGE 770 Hybrid Computer Linkage System featuring a new multiplying DAC.

For additional information, write or phone Mr. Mike Stein, Product Manager, Adage, Inc.

NEED 14-BIT A-TO-D CONVERSION AT 200 KC? OR 8-BIT AT 1 MC? ADAGE HAS IT!



The high-speed, high-resolution VT13-AB and ultra high-speed VT7-AB are the latest additions to the Adage VOLDICON™ line of voltage digitizers. Based on a novel design combining techniques of successive approximation and parallel threshold decoding, the VT13-AB accomplishes a 14-bit analog-to-digital conversion in less than 4 microseconds. The 8-bit VT7-AB performs a complete conversion in under 800 nanoseconds.

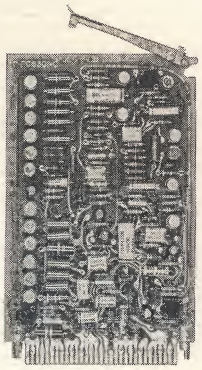
Other Voldicon models include:

VS Series A-to-D Converters
2 μsec. per bit conversion time
14-bit binary or 16-bit BCD
±.01% accuracy

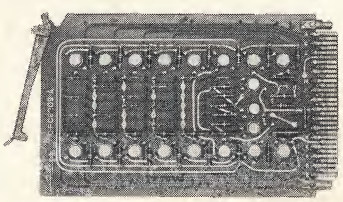
D-to-A Converters
±150v output
±.01% accuracy
14-bit resolution

And look at these other Adage data systems components!

Series VMX™ Multiplexers
100,000 samples per second
±.002% offset spread; .01% gain spread — no adjustments required
Systems-organized flexible programming



Sample-and-Hold Amplifier, Model SA3
Tracks within .01% in 10 μsec. for FS input step change
100 nanosec. aperture
100 μsec. recovery from 10X FS overloads

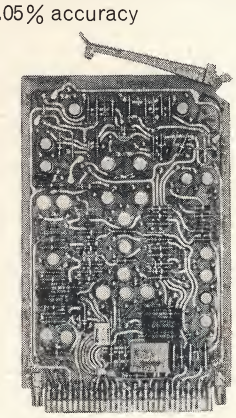


Operational Amplifier, Model OP3
Over 5 MC gain-bandwidth product
Approximately 100 pico-amps leakage current
Less than 30 μv offset drift

HZA™ Isolation Amplifiers
100,000 megohms input impedance
±150v input voltage range
1 part in 1,000,000 gain accuracy
Single-ended and differential with 120 db common mode rejection

Digital Logic
Designed for analog/digital system requirements
Compatible modules for digital control, decoding, formatting and interfacing

AC Signal Conditioners
.01% of final value achieved within 15 cycles of lowest frequency
±.05% accuracy



Next time, get a quote from Adage — for components or complete systems. We think you'll like our prices, too. Call or write I. R. Schwartz, Vice President, 617 UN 4-6620.

Adage INC
1079 Commonwealth Avenue,
Boston, Massachusetts 02215

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BOSTON, MASSACHUSETTS 02215